

DETAILED ACTION**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

*AB
6.22.09*
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In claim 4, line 13, "a plurality of turning parts" is changed to --the plurality of turning parts--.

Allowable Subject Matter

2. Claims 1-12 are allowed.

3. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 1-12 is the inclusion of the limitations of an antenna element having a plurality of turning parts and a plurality of segments formed between the turning parts, the segments being formed by being turned back in a zigzag manner in parallel to one face of the ground plate at the turning parts, the antenna element extending perpendicularly to the one face of the ground plate, with one end connected to a feeding part and the other end open, wherein a length of one segment or a length of a set of segments, which is a pair of arbitrary two adjacent segments having the same length, is shorter on a side of the one face of the ground plate and increases gradually as the segment or the set of segments is away from the one face of the ground plate. It is these limitations found in each of the claims,